

Amendment and Response

Applicant: Steven W. Trovinger

Serial No.: 10/681,315

Filed: Oct. 9, 2003

Docket No.: 200206080/H304.207.101

Title: SHEET FOLDING AND TRIMMING APPARATUS

IN THE CLAIMS

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of the claims:

1. (Original) A sheet folding and trimming apparatus comprising:
a folding apparatus including a plurality of rollers for forming a fold in a sheet; and
a sheetwise trimming apparatus including at least one cutting blade configured to trim
the folded sheet from the folding apparatus on three unfolded sides of the
folded sheet in a sheetwise manner.
2. (Original) The apparatus of Claim 1, wherein the folding apparatus is a buckle
folding apparatus having a sheet holder and the plurality of rollers are configured to form a
folded sheet by advancing one portion of the sheet while holding another portion of the sheet
with the sheet holder.
3. (Original) The apparatus of Claim 2, wherein the plurality of rollers of the buckle
folding apparatus include two advancing rollers for delivering the sheet to the sheet holder
and two folding rollers for forming the fold.
4. (Original) The apparatus of Claim 3, wherein one of the two advancing rollers
functions as one of the two folding rollers.
5. (Original) The apparatus of Claim 1, comprising a transport system configured to
transport sheets to the folding apparatus and to transport folded sheets from the folding
apparatus to the sheetwise trimming apparatus.
6. (Original) The apparatus of Claim 5, wherein the at least one cutting blade of the
sheetwise trimming apparatus is movable with respect to the transport system to cut sheets of
different sizes.

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7. (Original) The apparatus of Claim 1, comprising an assembling apparatus for assembling a plurality of folded and trimmed sheets into a booklet, the assembling apparatus including an opening roller for opening the folded and trimmed sheets and an advancing apparatus for advancing a sheet into an opened sheet.
8. (Original) The apparatus of Claim 1, comprising an assembling apparatus for assembling a plurality of folded and trimmed sheets into a text body, the assembling apparatus including a stacking module for stacking the folded and trimmed sheets for binding.
9. (Original) The apparatus of Claim 1, wherein the folding apparatus is a knifeless folding device.
10. (Original) The apparatus of Claim 1, wherein the sheetwise trimming apparatus performs trimming on first and second opposite edges of the folded sheet at a predetermined fixed location determined by the size of a booklet to be formed, and the trimming apparatus performs trimming on a third edge of the folded sheet at a variable location determined on a sheet-by-sheet basis based on a size of the booklet and a location of the sheet in the booklet.
11. (Original) The apparatus of Claim 1, comprising a printer arranged to deliver printed sheets to the folding apparatus.
12. (Original) A booklet making apparatus comprising:
 - a folding apparatus including a plurality of rollers configured to form a folded sheet;
 - a sheetwise trimming apparatus including at least one cutting blade configured to trim the folded sheet from the folding apparatus on three unfolded sides of the folded sheet in a sheetwise manner; and
 - an assembling apparatus for assembling a plurality of folded and trimmed sheets into a booklet, the assembling apparatus including an opening roller for opening

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the folded and trimmed sheets and an advancing apparatus for advancing a sheet into an opened sheet.

13. (Original) The apparatus of Claim 12, wherein the sheetwise trimming apparatus performs trimming on first and second opposite edges of the folded sheet at a predetermined fixed location determined by the size of a booklet to be formed, and the trimming apparatus performs trimming on a third edge of the folded sheet at a variable location determined on a sheet-by-sheet basis based on a size of the booklet and a location of the sheet in the booklet.

14. (Original) The apparatus of Claim 12, wherein the at least one cutting blade of the sheetwise trimming apparatus is movable to cut sheets of different sizes.

15. (Currently Amended) A method of forming a bound text body comprises:

- (a) folding a sheet with a folding apparatus to form a folded sheet;
- (b) trimming three edges of the folded sheet to form edges that a square with the fold;
- (c) repeating steps (a) and (b) with a plurality of sheets;
- (~~e~~)(d) assembling the plurality of folded and trimmed sheets into a text body; and
- (~~d~~)(e) binding the text body.

16. (Original) The method of Claim 15, wherein the step of assembling includes opening the folded sheets and assembling the sheets in the form of a booklet.

17. (Original) The method of Claim 16, wherein the step of assembling includes stapling the booklet along the fold.

18. (Original) The method of Claim 16, wherein the step of trimming includes trimming the sheets to different sizes depending on a location of the sheet in the final booklet.

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19. (Original) The method of Claim 15, wherein the step of assembling includes stacking the folded sheets in the form of a book and the step of binding includes applying adhesives to the folds of the sheets.

20. (Original) The method of Claim 15, wherein the step of folding the sheet includes holding a portion of the sheet stationary while advancing another portion of the sheet with a plurality of rollers to form a buckle in the sheet.